AMENDMENTS TO THE SPECIFICATION

1. (Previously Presented) An OFDMA-TDMA (Orthogonal Frequency Division Multiple Access-Time Division Multiple Access) based wireless Internet terminal comprising:

a QoS profile storing information about a QoS policy;

a first module, comprising:

a classifier for classifying data packets to be transmitted according to the QoS policy, and

a first priority controller that gives first priorities to the classified data packets according to the QoS policy; and

a second module, comprising:

a PDU maker for generating PDUs from the data packets given the first priorities, and

a second priority controller for determining second priorities of the PDUs according to characteristics of the data packets,

wherein the second module arranges the PDUs in an allocated bandwidth to transmit the PDUs.

2. (Currently Amended) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 1, wherein the first module further includes an admission controller that determines admission or discard of the data packets after being classified by the classifier~~, and wherein the data packets classified by the classifier are data packets that are determined as admitted by the admission controller after being classified by the classifier~~.

3. (Previously Presented) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 2, wherein the first module further includes a QoS queue storing the data packets classified by the classifier, and a priority queue storing data packets admitted by the admission controller based on their first priorities.

4. (Previously Presented) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 1, wherein the first module is constructed in a MAC layer by software.

5. (Original) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 1, wherein the second module includes a sorting queue sequentially storing the PDUs based on priorities assigned by the second priority controller.

6. (Previously Presented) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 5, wherein the PDUs are MAC PDUs, and the second priority controller gives the second priories to the MAC PDUS in the order of an ACK packet, a management message packet and a user data packet independently from the QoS profile.

7. (Original) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 6, wherein the second module is constructed in a MAC layer by hardware.

8. (Currently Amended) A packet processing method in a wireless Internet terminal, comprising:

classifying and storing data packets based on a QoS policy;

providing first priories to the data packets classified based on the QoS policy;

storing the data packets given the first priorities in a queue and sequentially outputting the data packets based on their first priories;

providing second priorities to the data packets outputted from the queue based on characteristics of the data packets given ~~provided~~ the first priorities independently of the QoS policy; and

sequentially sorting the data packets based on the second priorities to arrange the data packets in an allocated bandwidth.

9. (Original) The packet processing method as claimed in claim 8, further comprising determining admission or discard of the classified data packets.

10. (Previously Presented) The packet processing method as claimed in claim 9, wherein the classifying and storing data packets, the determining admission or discard of the classified data packets and the providing of the first priories to the classified data packets are executed by software, and the provided second priorities to the data packets and the arranging the data packets are executed by hardware.

11. (Original) A recording medium storing a program used for a wireless terminal that gives first priories to data packets based on a QoS policy, gives second priories to the data packets based on packet information of the data packets given the first priories and uplink-transmits the data packets, the recording medium comprising:

storing the QoS policy as a QoS profile;

classifying and storing the data packets based on the QoS policy;

determining admission or discard of the classified data packets; and

providing the first priorities to data packets allowed to be admitted according to the QoS policy.

12. (Previously Presented) The OFDMA-TDMA based wireless Internet terminal as claimed in claim 2, wherein the classified data packets are admitted or discarded according to at least one of an available traffic state and the QoS policy.

13. (Previously Presented) The packet processing method as claimed in claim 9, wherein the classified data packets are admitted or discarded according to at least one of an available traffic state and the QoS policy.

14. (Previously Presented) The recording medium as claimed in claim 11, wherein the classified data packets are admitted or discarded according to at least one of an available traffic state and the QoS policy.